

## Claims

1. A resin composition comprising:

(A) 70 to 99 parts by weight of a polyphenylene ether resin, and

(B) 1 to 30 parts by weight of a liquid-crystal polyester,

wherein the polyphenylene ether resin in the composition contains 10 to 30 wt.% of polymer having a molecular weight of 20,000 or less and has a molecular weight distribution (Mw/Mn) of 1.8 to 3.5.

2. The resin composition according to claim 1, wherein the polyphenylene ether resin contains 10 to 25 wt.% of polymer having a molecular weight of 20,000 or less, and has a molecular weight distribution (Mw/Mn) of 2.0 to 3.0.

3. The resin composition according to claim 1, further comprising:

(C) 0.1 to 10 parts by weight of a compound containing a monovalent, divalent, trivalent or tetravalent metal element based on 100 parts by weight, in total, of components (A) and (B).

4. The resin composition according to claim 3, wherein the monovalent, divalent, trivalent or tetravalent metal element is at least one element selected from the group consisting of Zn, Mg, Ti, Sn, Sb, Al and Ge.

5. The resin composition according to claim 3, wherein component (C) is at least one compound selected from the group consisting of ZnO, zinc acetate, zinc stearate, Mg(OH)<sub>2</sub>, tetrabutoxide titanate and tetraisopropoxy titanate.



12. The resin composition according to claim 10, wherein component (F) is a polyhedral oligomeric silsesquioxane or partially opened polyhedral oligomeric silsesquioxane.

13. The resin composition according to claim 10, wherein component (F) is a silica.

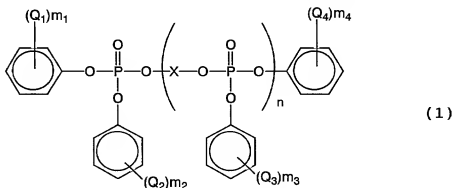
14. The resin composition according to any one of claims 10 to 13, further comprising:

(G) a cyclic nitrogen compound, wherein the weight ratio (f/g) of component (F) to component (G) is 0.1 to 10.

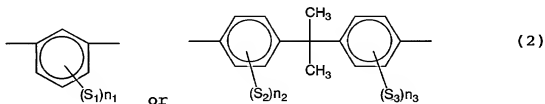
15. The resin composition according to claim 14, wherein component (G) is a melamine, melem or mellon.

16. The resin composition according to claim 9, wherein component (E) is a phosphorus flame retardant.

17. The resin composition according to claim 16, wherein the phosphorus flame retardant has the following structure (1):



wherein  $Q_1$ ,  $Q_2$ ,  $Q_3$  and  $Q_4$  each independently represents an alkyl group having 1 to 6 carbon atoms or a hydrogen atom;  $n$  represents an integer of 1 or more;  $m_1$ ,  $m_2$ ,  $m_3$  and  $m_4$  each independently represents an integer of 0 to 3; and  $X$  is selected from formula (2):



wherein  $S_1$ ,  $S_2$  and  $S_3$  each independently represents a methyl group or a hydrogen atom; and  $n_1$ ,  $n_2$  and  $n_3$  each independently represents an integer of 0 to 2.

18. A molded article obtained by molding the resin composition according to any one of claims 1 to 5, 8 and 10 to 17.

19. The molded article according to claim 18, wherein the molded article is a heat resistant part for automobiles or office machines.

20. The molded article according to claim 18, wherein the molded article is a sheet.

21. A method for producing the composition according to claim 1 or 2 comprising:

providing a twin-screw extruder, and  
melt-kneading a resin with the twin-screw extruder set at a screw

rotation speed (N) of 200 to 600 rpm, heat exposure ( $\alpha$ ) of 50 or less and a temperature of the resin extruded from a die of 310 to 380° C (wherein heat exposure ( $\alpha$ )= $D^3 \times N/Q \times 10^{-4}$ ; D (mm)=diameter of the screw of the twin-screw extruder; N (rpm)=screw rotation speed; and Q (kg/hr)=extrusion rate of the resin from the extruder).

22. A resin composition comprising:

(A) 70 to 99 parts by weight of a polyphenylene ether resin,

(B) 1 to 30 parts by weight of a liquid-crystal polyester, and 0.1 to 10 parts by weight of Zn and/or Mg based on 100 parts by weight, in total, of components (A) and (B);

wherein the abundance ratio (R) of Zn and/or Mg in the disperse phase obtained by TEM-EDX is 0.0005 or more, and a requirement of  $R_d > R_m$  when  $R_m = 0$  or  $150R_m > R_d > R_m$  when  $R_m \neq 0$  (wherein the abundance ratio (R) of Zn and/or Mg = (the number of  $L\alpha$ -rays of Zn and/or Mg)/(the number of  $K\alpha$ -rays of C),  $R_d$  represents R in the disperse phase, and  $R_m$  represents R in the continuous phase) is satisfied.